

PERCUTANEOUSLY ABSORBABLE TYPE PHARMACEUTICAL PREPARATION

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- **international:** A61K9/70; A61K31/135; A61P11/00; A61P11/08; A61P25/02; A61K9/70; A61K31/135; A61P11/00; A61P25/00; (IPC1-7): A61K9/70; A61K31/135

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 JP2753800 (B2)
 EP0677290 (A1)
 EP0677290 (B1)
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 ES2160647 (T3)

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Abstract of JP 7285854 (A)

PURPOSE:To obtain the subject pharmaceutical preparation excellent in adhesion to the skin and further percutaneous absorbability and persistence of pharmacodynamic effects of tulobuterol by blending a dissolved type tulobuterol and a crystalline type tulobuterol in a well-balanced state in a tacky agent.

CONSTITUTION:This percutaneously absorbable type pharmaceutical preparation is obtained by laminating a plaster layer containing tulobuterol having a saturation solubility or above in a tacky agent to one surface of a support. The content ratio of a dissolved type tulobuterol to a crystalline tulobuterol is 0.1-10, preferably 0.2-9, more preferably 1-5 and the content of the whole tulobuterol is 1-50wt.%, preferably 5-20wt.%. Furthermore, the ratio of the disappearance rate of the crystalline tulobuterol to that of the whole tulobuterol in the plaster layer is preferably 0.1-1.

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PERCUTANEOUS TULOButEROL PREPARATION AND PROCESS FOR PRODUCING THE SAME

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Inventor(s):

Applicant(s):

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- **international:** **A61K9/70; A61K31/137; A61K9/70; A61K31/137;** (IPC1-7): A61K31/137; A61K9/70; A61P11/06

- **European:** A61K9/70E; A61K31/137

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 WO9714411 (A1)
 PL326249 (A1)
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Abstract not available for JP 3260765 (B2)

Abstract of corresponding document: **WO 9714411 (A1)**

A percutaneous tulobuterol preparation obtained by laminating a pressure-sensitive adhesive layer comprising as the main component a synthetic rubber containing micro-crystalline tulobuterol of 2 to 20 μ m in average particle size onto a support; in particular, a percutaneous tulobuterol preparation wherein the micro-crystalline tulobuterol is one obtained by dissolving tulobuterol and a pressure-sensitive adhesive comprising as the main component a synthetic resin in a good solvent followed by recrystallization; and a process for producing the preparation which comprises homogeneously dissolving the adhesive and tulobuterol in a good solvent, applying the resulting adhesive solution onto one face of a peelable film and drying to thereby form an adhesive layer; then laminating the adhesive layer onto a support; and recrystallizing tulobuterol at 10 to 30 DEG C to thereby give an adhesive layer wherein microcrystals of 2 to 20 μ m in average particle size have been homogeneously dispersed. The preparation is excellent in the long-lasting drug effect. The above process makes it possible to efficiently produce the preparation.

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